

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-26 (Canceled).

Claim 27 (New): A heterogeneous wireless data transmission network comprising:

a master node;

a passive slave node including a first passive transmitter configured to modulate and reflect external RF signals, said passive slave node being configured to transmit data to the master node by modulated backscatter communication using the first passive transmitter; and

an active slave node including a second passive transmitter configured to modulate and reflect external RF signals and a first active transmitter configured to transmit a modulated signal independently, said active slave node being configured to transmit data to the passive slave node using the first active transmitter,

wherein the master node is configured to wake up the passive slave node or the active slave node from a sleep state at any time by transmitting a wake-up signal to the passive slave node or the active slave node.

Claim 28 (New): The network according to claim 27, wherein the active slave node is configured to wake up the passive slave node or another active slave node from the sleep state at any time by transmitting the wake-up signal to the passive slave node or the another active slave node.

Claim 29 (New): The network according to claim 27, wherein the master node further comprises:

a second active transmitter configured to transmit data to the first active transmitter of the active slave node.

Claim 30 (New): The network according to claim 27, wherein the passive slave node further comprises:

a processing unit configured to process and create dynamic data for transmission by the first passive transmitter.

Claim 31 (New): The network according to claim 27, wherein the passive slave node includes a power supply.

Claim 32 (New): The network according to claim 31, wherein the active slave node further comprises:

a sensor element configured to detect operational parameters of the active slave node or environmental data.

Claim 33 (New): The network according to claim 32, wherein the passive slave node or the active slave node further comprises:

a remotely controllable actuator element configured to execute programmable actions.

Claim 34 (New): The network according to claim 33 further comprising:

a second master node, wherein the passive slave node or the active slave node is configured to transmit data to the master node by modulating and reflecting an external signal transmitted from the second master node.

Claim 35 (New): The network according to claim 34, wherein
the wake-up signal further includes identification information,
the passive slave node or the active slave node is configured to switch from the sleep
state to an identification information detection state upon reception of the wake-up signal,
the active slave node or the passive slave node, in the identification information
detection state, is configured to switch to a control data reception state for receiving control
data when the wake-up signal includes identification information identifying the active slave
node or the passive slave node, respectively, and
the active slave node or the passive slave node, in the identification information
detection state, is configured to switch to the sleep state if the wake-up signal does not
include said identification information identifying the active slave node or the passive slave
node, respectively.

Claim 36 (New): The network according to claim 35, wherein the identification
information includes an identifier of the passive slave node or the active slave node.

Claim 37 (New): The network according to claim 35, wherein the identification
information identifies a group of passive slave nodes or a group of active slave nodes.

Claim 38 (New): The network according to claim 35, wherein the identification
information identifies all passive slave nodes or all active slave nodes.

Claim 39 (New): The network according to claim 35, wherein the passive slave node
or the active slave node power consumption is smaller in the sleep state than in the

identification information detection state and is smaller in the identification information detection state than in the data control reception state.

Claim 40 (New): The network according to claim 27, wherein the network is configured in a hybrid star or meshed topology.

Claim 41 (New): The network according to claim 27, wherein the master node includes a bridge that provides a wireless or wired communication link to at least one further master node.

Claim 42 (New): The network according to claim 27, wherein the master node further comprises:

an active receiver that has a power higher consumption and sensitivity than the first passive receiver in the passive slave node or the second passive receiver in the active slave node, and the first passive receiver in the passive slave node or the second passive receiver in the active slave node has a lower power consumption and sensitivity than the active receiver in the master node.